

Weekly Report 2016.11.14-2016.11.20

Progress:

1. Huawei Project

I fixed some bugs and interfaces this week.

I also went to Huawei once, and talked to Feiran.

Currently, we are writing documents for the project. Feiran said that my patent is ok now.

Huawei will proceed the final check of this project this week, hope everything goes well.

2. Temporal Ensemble Rankings

This week I implemented a very simple fuzzy logic, which is “If outlier of one item is high, then its weight in the ensemble is low”, that is a map between outlier and weight. I tested it on a simple data, and find that it does work. The distance between two ensembles with outliers is significantly reduced when set “If outlier of one item is low, then its weight in the ensemble is high”. We have to figure out how many parameters we have to adjust in the system and then design corresponding fuzzy logics.

As we are going to let users to adjust parameters by fuzzy logic, the calculation of the clusters must be done online. But dynamic time warping is actually time consuming, we have to reduce the running time. One potential way is to use symbolic. DTW between two time-series is calculated only when the distance between their symbolized time-series is small enough.

Plan:

1. Huawei Project

Write the patent and go to Huawei for final check.

2. Temporal Ensemble Ranking Data

Talk with Prof. Wu, and revise the paper as soon as possible.